

**COLORADO RIVER RECOVERY PROGRAM**  
**FY-2004–2005 PROPOSED SCOPE OF WORK for:**  
(GVP passage and screen)

**Project No.: C-23**

**Note: Annual reports only**

Lead Agency: Bureau of Reclamation  
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Category:

- ☒ Ongoing project
- ☐ Ongoing-revised project
- ☐ Requested new project
- ☐ Unsolicited proposal

Expected Funding Source:

- ☐ Annual or ☐ O&M funds
- ☒ Capital funds
- ☐ Other (explain)

I. Title of Proposal:

Grand Valley Project Diversion Dam fish passage and fish screen facilities

II. Relationship to RIPRAP:

Colorado River Action Plan: Mainstem  
II.B.3. Restore fish passage at Government Highline  
II.B.3.a.(2) Construct  
II.B.3.b Screen Government Highline diversion to prevent endangered fish entrainment  
II.B.3.b.(2) Construct

III. Study Background/Rationale and Hypotheses:

The 14-foot-high Grand Valley Project Diversion Dam is owned by the United States and operated by the Grand Valley Water Users Association. Construction of the dam was completed in 1917. The dam is located on the Colorado River near Cameo Colorado, approximately 5 miles upstream of the abandoned Price-Stubb Diversion Dam and 8 miles upstream of the Grand Valley Irrigation Company Diversion Dam. All three of these dams prevent upstream movement of native and non-native fish; however, a fish passage facility was constructed at the Grand Valley Irrigation Company Diversion Dam

in 1997. Entrainment of native fish in the Grand Valley Project and Grand Valley Irrigation Company canal systems has been documented. In response to these problems, the Upper Colorado River Recovery Implementation Program (Program) has identified restoration of fish passage at these three dams as well as screening the Grand Valley Irrigation Company and Grand Valley Project canals as important components of recovery efforts for Colorado pikeminnow and razorback sucker.

The Program has adopted 3/32" wedge wire screening material as a standard as it prevents entrainment of a wide range of fish life stages, minimizes operation and maintenance problems and represents proven state-of-the-art technology. All screening and passage alternatives will emphasize minimization of fish mortality and operational impacts to the canal system.

IV. Study Goals, Objectives, End Product:

Goal: Screen and restore fish passage at the Grand Valley Project Diversion Dam and canal.

Objectives:

1. Conduct preconstruction planning and environmental compliance activities leading to selection of a preferred alternative.
2. Prepare designs, specifications, O&M contract and cost estimates leading to construction contract award.
3. Provide construction management services resulting in construction of the fish screen and passage facilities.

- V. Study area: The Grand Valley Project Diversion Dam is located on the Colorado River near Cameo Colorado, approximately 5 miles upstream of the abandoned Price-Stubb Diversion Dam and 8 miles upstream of the Grand Valley Irrigation Company Diversion Dam.

VI. Study Methods/Approach

Construction contract scheduled for award in September 2003

VII. Task Description and Schedule

1. Conduct geotechnical investigations (Complete)
2. Formulate range of alternatives (Complete)

3. Conduct public scoping process (Complete)
4. Prepare DEA (Complete)
5. Assuming Finding of No Significant Impact (FONSI), prepare Final Environmental Assessment (FEA) (Complete)
6. If significant impacts associated with the preferred alternative are identified, prepare Environmental Impact Statement (EIS). (Complete)
7. Prepare final designs, specifications, O&M contract, cost estimates and award construction contract (Complete)
8. Construct fish screen (FY 2004 - FY 2005)
9. Operate and evaluate fish screen facility and modify if required (FY 2005)
10. Construct fish passage (FY 2004 - FY 2005)
11. Operate and evaluate fish passage facility and modify if required (FY 2005)
12. Long term operation and maintenance of fish screen and passage facilities (Ongoing after FY 2005)

#### VIII. FY-2004 Work

##### Task 8 - Construct Fish Screen

Deliverable	Fish Screen	
Budget		
	Inspection Labor (42 wks @ \$1,900/wk)	79,800
	Materials testing ( 21 wks @ \$1,900/wk)	39,900
	Surveying (11 wks @ \$2,400/wk)	26,400
	Contract Admin. (22 wks @ \$2,300/wk)	50,600
	Travel	0
	Equipment (IT Equipment Assessment)	3,900
	Other - Construction contract	7,750,000
	Total	<u>7,950,600</u>

**Note: Estimated construction completion by May 2005.**

##### Task 9 - Operate and Evaluate Fish Screen

Deliverable	Screen operation	
Budget		
	Labor (8 wks @ \$1,875/wk)	15,000

Travel	0
Equipment (IT Equipment Assessment)	300
Other (GVWUA labor 94 wks @ \$800/wk)	75,200
Total	90,500

Task 10 - Construct Fish Passage

Deliverable Design and specifications

Budget

Inspection Labor (26 wks @ \$1,900/wk)	49,400
Materials testing (8 wks @ \$1,900/wk)	15,200
Surveying (7 wks @ \$2,400/wk)	16,800
Contract Admin. (21 wks @ \$2,300/wk)	48,300
Travel	0
Equipment (IT equipment assessment)	2,600
Other	3,663,000
Total	3,795,300

**Note: Estimated construction completion by May 2004.**

Task 11 - Operate and Evaluate Fish Passage

Deliverable Operation and evaluation

Budget

Labor (2 wks @ \$1,875/wk)	3,750
Travel	
Equipment (IT equipment assessment)	100
FWS operation	??????
Other (GVWUA labor 12 wks @ \$800/wk)	9,600
Total	13,450

Fiscal Year 2005 Work

Out Year Annual Base Funding Needs - \$40,000 to 85,000 per year for screen and passage O&M.

IX. Budget Summary

	2004	2005
Construction	11,849,850	
O&M		85,000

X. Reviewers

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## XI. References